Springwell Solar Farm

ES Volume 2: Figures

Chapter 10: Landscape and Visual

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

EN010149/APP/6.2

November 2024

Springwell Energyfarm Ltd

ES Volume 2: Figures

Chapter 10: Landscape and Visual

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Figure 10.2	01	Landscape Character Areas	A3
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Figure 10.27	01	RVAA Property Plan-Gorse Hill Farm	A3
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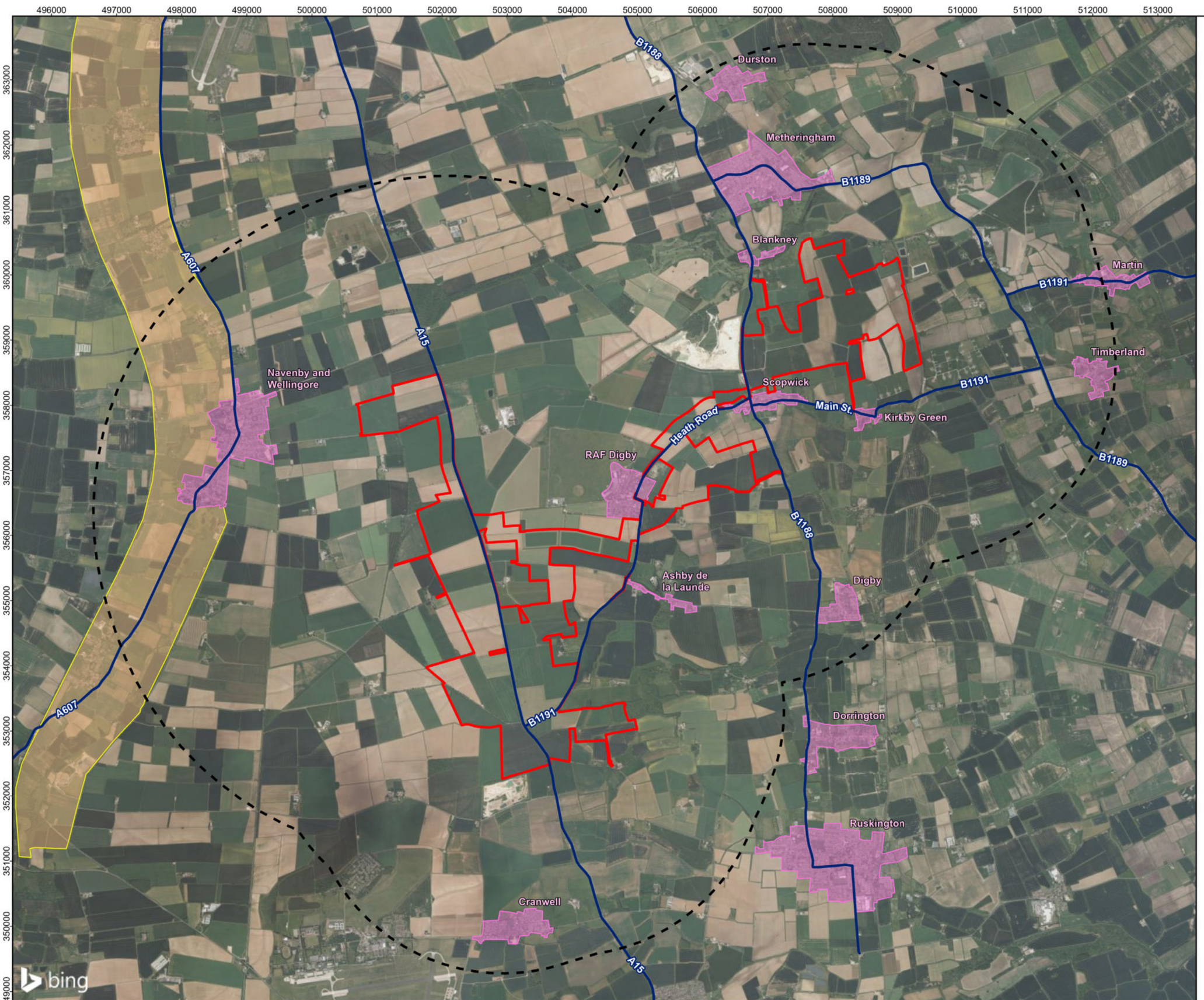

Legend:

- Order Limits
- Landscape and Visual Study Area
- Main Roads
- Settlement
- Lincoln Cliff Area of Great Landscape Value

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

Rev	Date	Description	Drn	Chk	App
01	Nov 2024	DCO Submission	RSK	RSK	EDF

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DOCUMENT:
ENVIRONMENTAL STATEMENT
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REGULATION 5(2)(a)

TITLE:
Figure 10.1: Landscape Study Area, Context and Designations

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Kilometers

Scale: 1:55,000 @ A3

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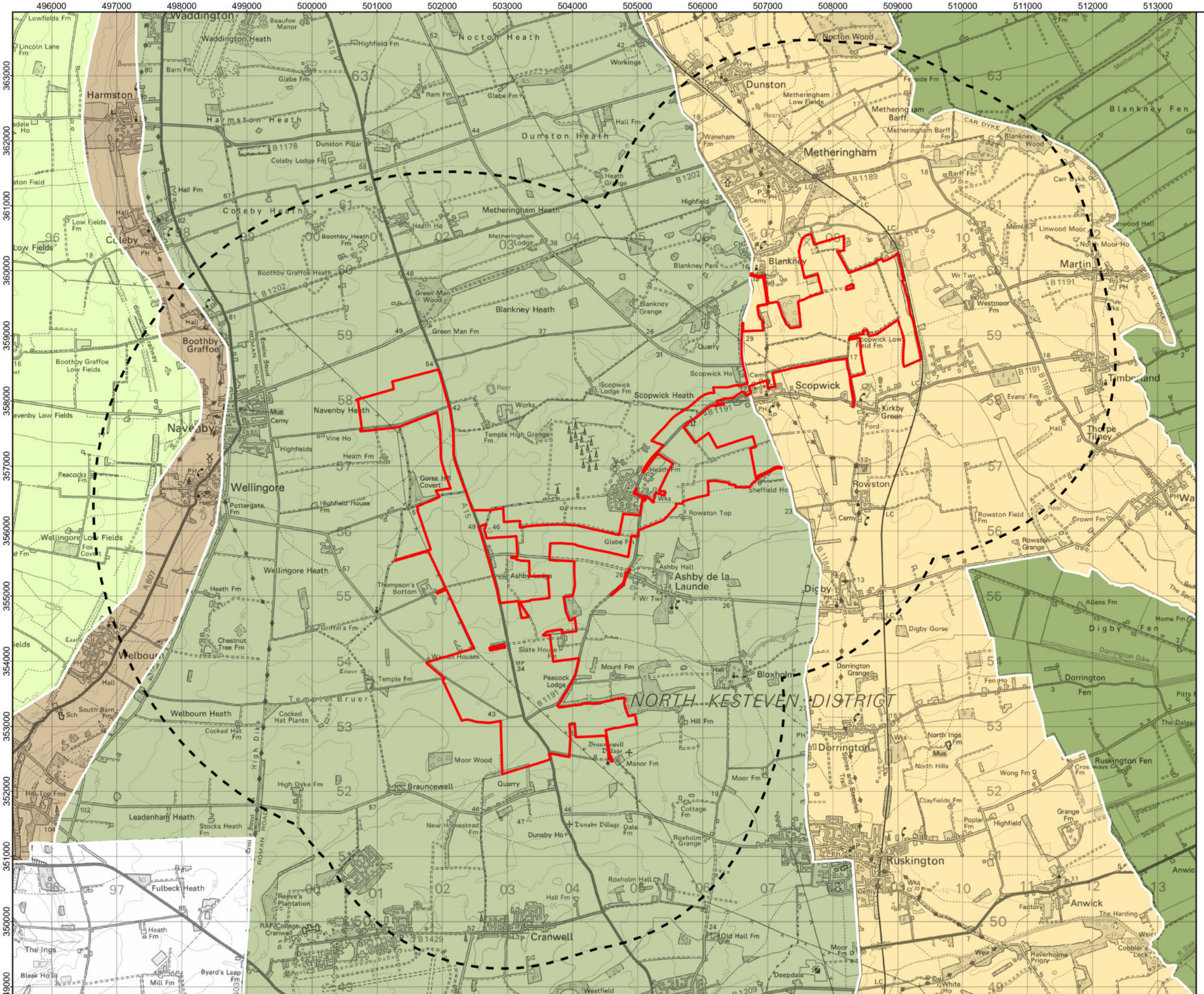
Path: C:\Users\mo.pamplin.RSK\HELSBY\RSK Group\SH Projects 200s - 0297 - Acre Lane Solar Farm\05 Working Files\02 GIS\P663620-ES.aprx\ES 10-1 Landscape Study Area



Legend:

- Order Limits
- Landscape and Visual Study Area

North Kesteven Landscape Character Assessment (2007)

- 5: Witham Brent Vales
- 6: Lincoln Cliff
- 7: Limestone Heath
- 11: Central Clays and Gravels
- 13: Fenland

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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TITLE:
Figure 10.2: Landscape Character Areas

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers

Scale: 1:55,000 @ A3

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Extent of figure 10.3b

Extent of figure 10.3c

Extent of figure 10.3d

Legend:

- Order Limits
- Public Rights of Way
- Spires and Steeples Trail
- Stepping Out Routes
- Ridges and Furrows Trail
- Viking Way
- Main Roads
- Other Roads
- Settlement
- Recreational Receptors
- Extent of Detail Sheets

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.3a: Visual Receptors - Springwell Overview

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:48,000 @ A3

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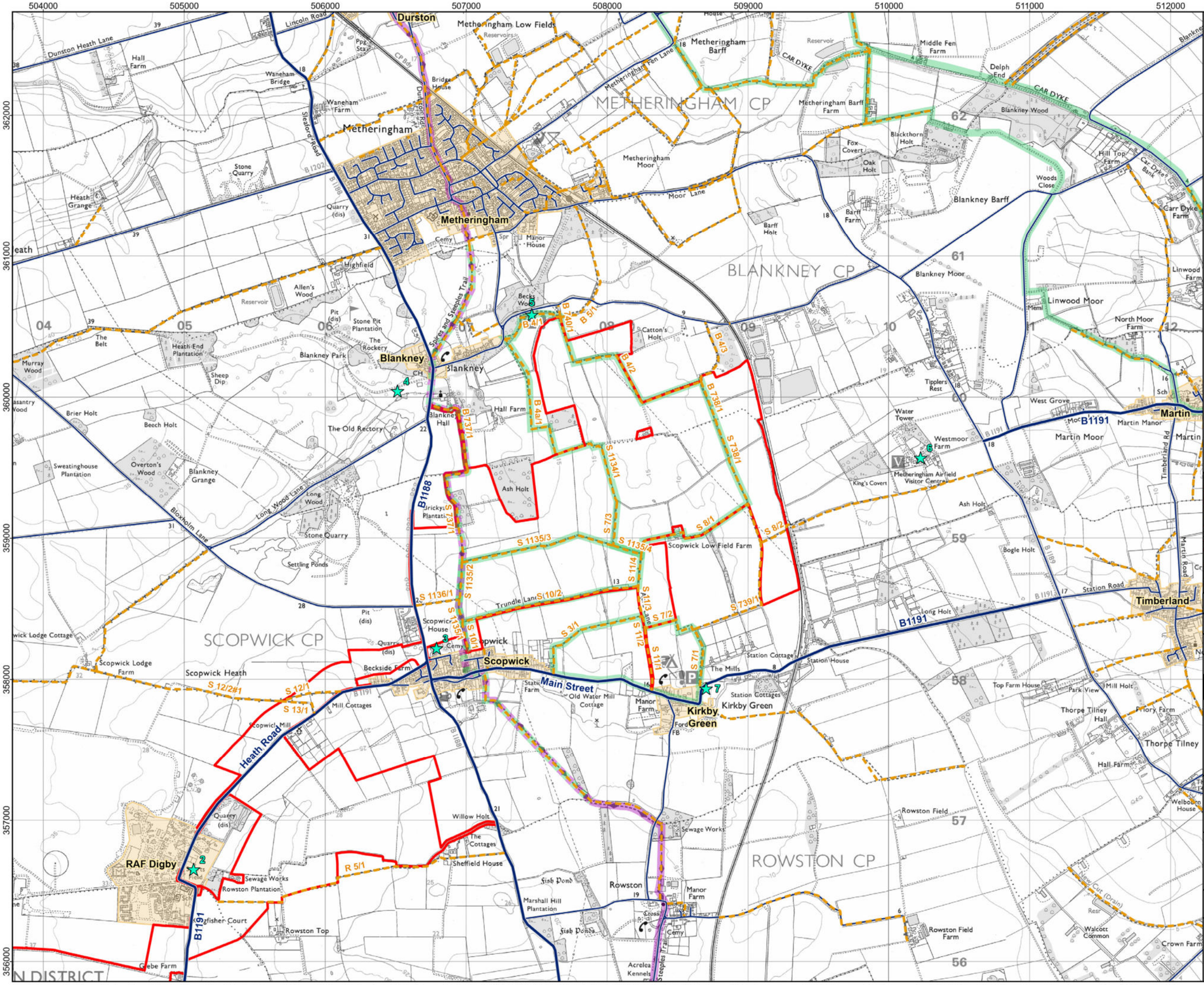

Legend:

- Order Limits
- Public Rights of Way
- Spires and Steeples Trail
- Stepping Out Routes
- Main Roads
- Other Roads
- Settlement
- Recreational Receptors

2 RAF Digby Sports Fields
3 Scopwick Cemetery and Play Area
4 Blankney Golf Club
5 Blankney Walks Car Park and Picnic Area
6 Metheringham Airfield Visitor Centre
7 Kirkby Green Stepping Out Car Park

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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TITLE:
Figure 10.3b: Visual Receptors - Springwell East

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:25,000 @ A3

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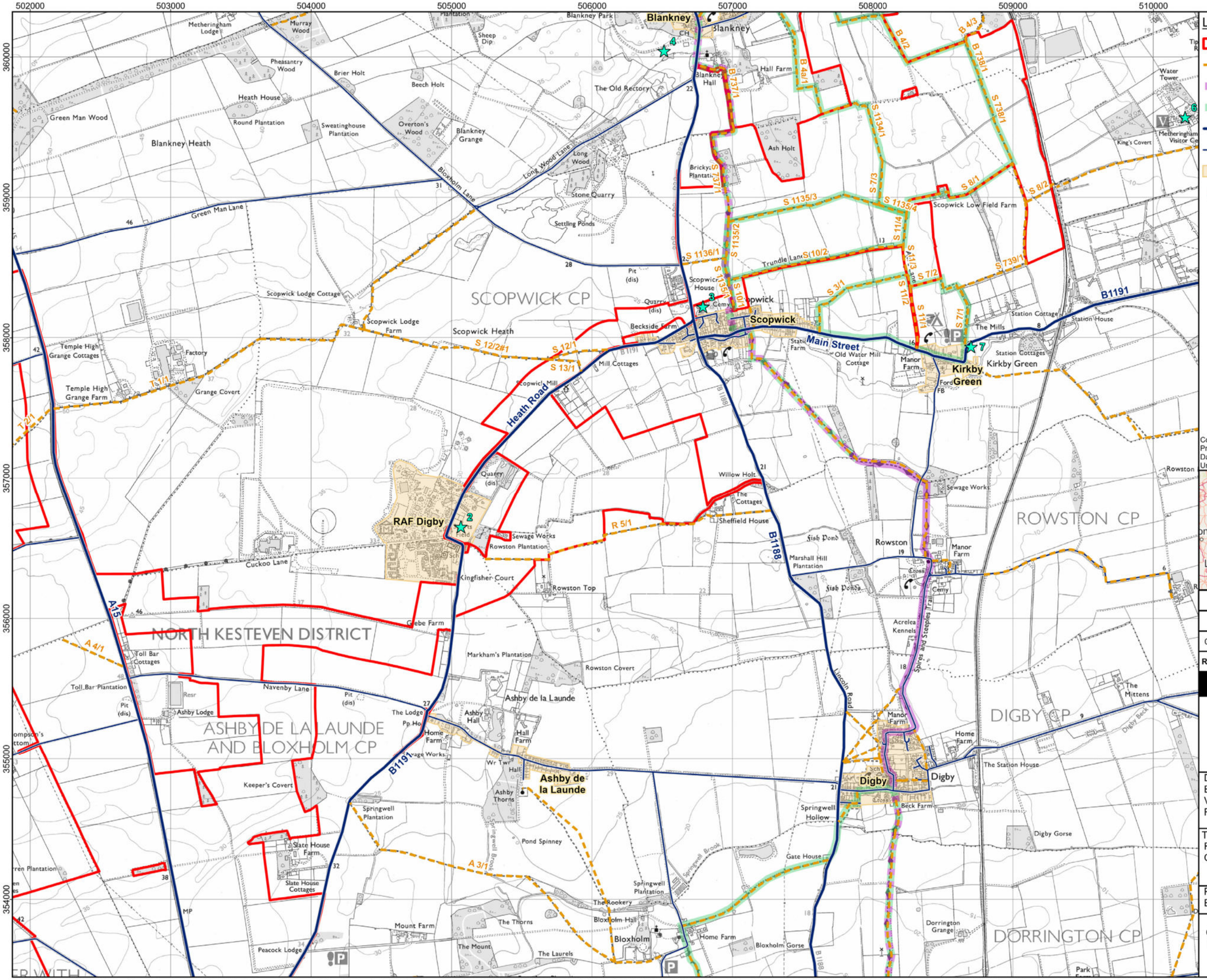

Legend:

- Order Limits
- Public Rights of Way
- Spires and Steeples Trail
- Stepping Out Routes
- Main Roads
- Other Roads
- Settlement
- Recreational Receptors

2 RAF Digby Sports Fields
3 Scopwick Cemetery and Play Area
4 Blankney Golf Club
6 Metheringham Airfield Visitor Centre
7 Kirkby Green Stepping Out Car Park

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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TITLE:
Figure 10.3c: Visual Receptors - Springwell Central

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:25,000 @ A3

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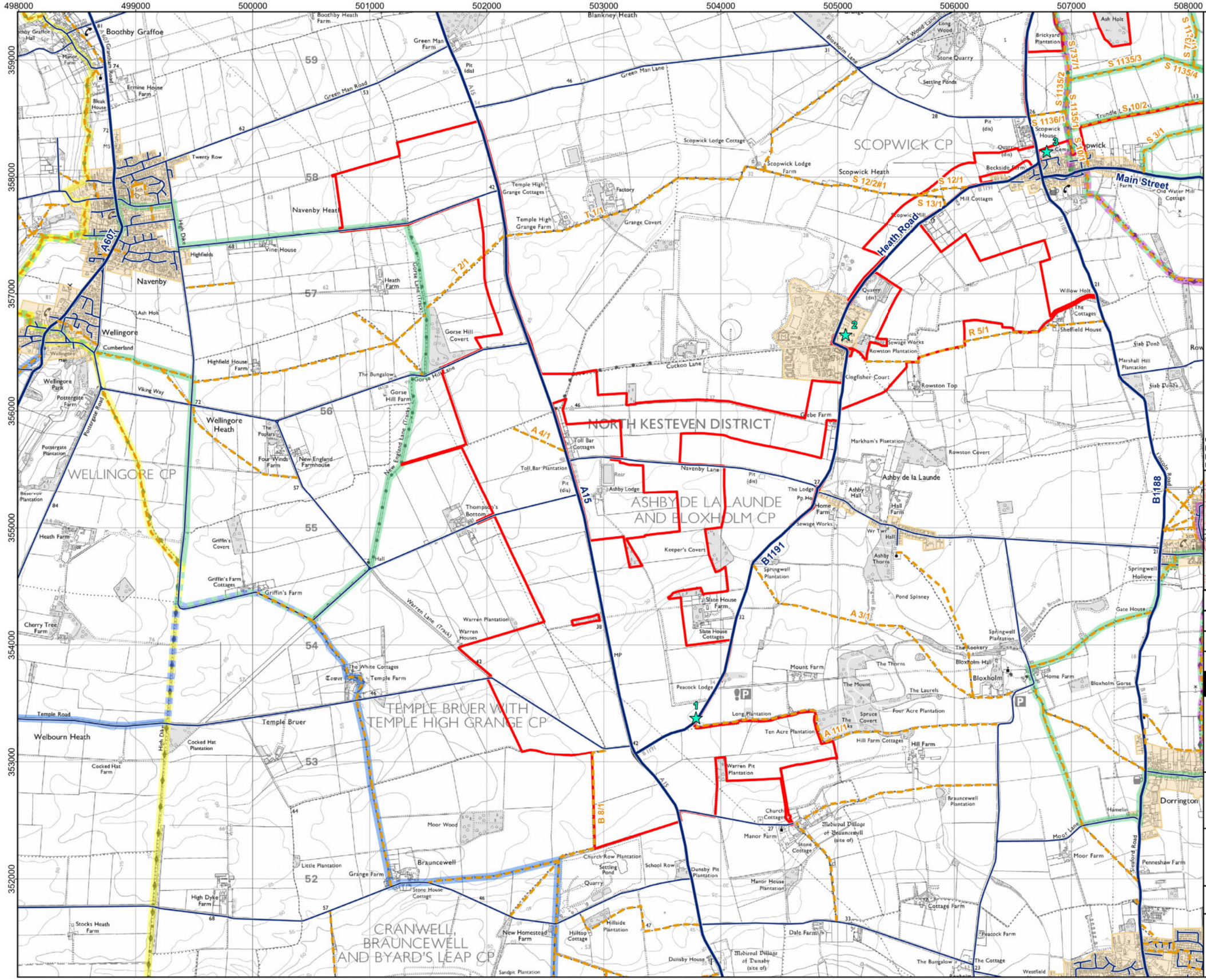

Legend:

- Order Limits
- Public Rights of Way
- Spires and Steeples Trail
- Stepping Out Routes
- Ridges and Furrows Trail
- Viking Way
- Main Roads
- Other Roads
- Settlement
- Recreational Receptors
- 1 Bloxholm Woods Layby and Nature Reserve Walk
- 2 RAF Digby Sports Fields
- 3 Scopwick Cemetery and Play Area

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.3d: Visual Receptors - Springwell West

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:30,000 @ A3

REV 01

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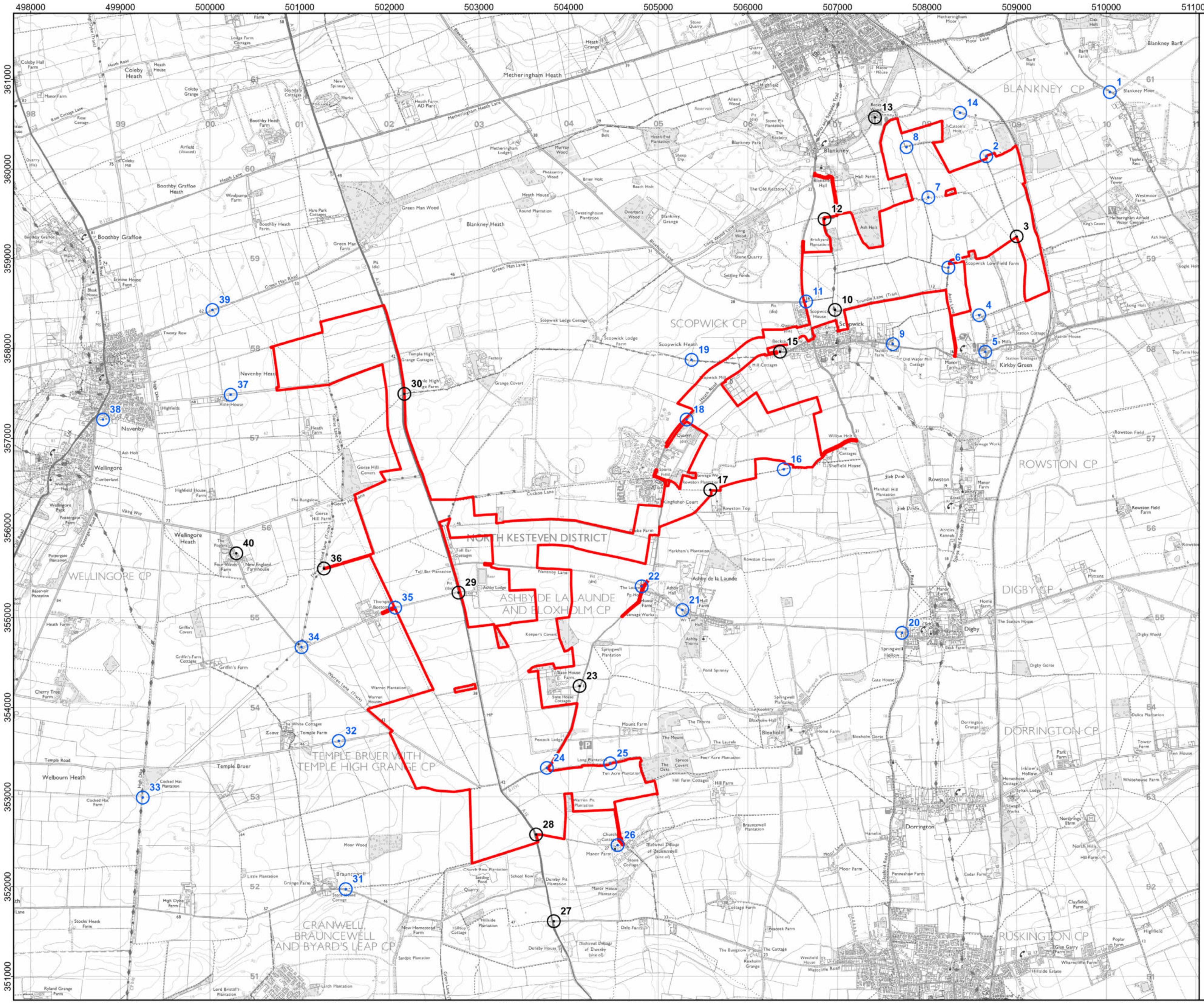

Legend:

🟥 Order Limits

⊙ Assessment Viewpoints

⊙ Photomontage Locations

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.4: Viewpoint Locations

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:40,000 @ A3

REV 01

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Extent of figure 10.5b

Extent of figure 10.5c

Extent of figure 10.5d

Legend:

- Order Limits
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland
- Solar PV Modules may be visible

NOTES:
Layout file: D012-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-5m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The model does not take into account some localised features such as hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m^2 resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.5a: Solar PV Standard ZTV

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 1 2
Kilometers
Scale: 1:65,000 @ A3

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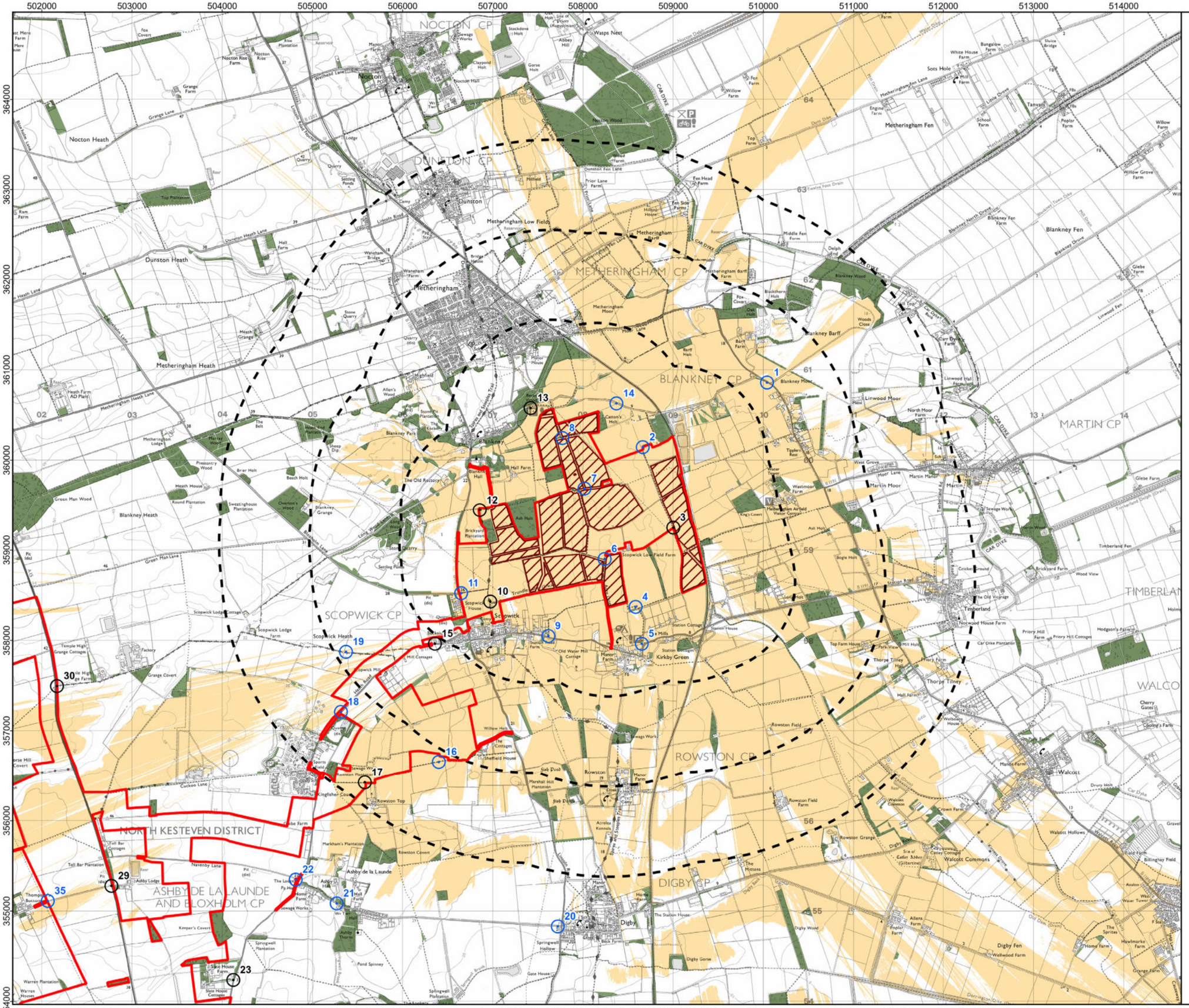

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland
- Solar PV Modules may be visible

NOTES:
Layout file: D012-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-5m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 5m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The model does not take into account some localised features such as hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m² resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.5b: Solar PV Standard ZTV - East Parcel

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:40,000 @ A3

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500000 501000 502000 503000 504000 505000 506000 507000 508000 509000 510000 511000 512000

362000 361000 360000 359000 358000 357000 356000 355000 354000 353000 352000

Dunston Heath
Metheringham
METHERINGHAM CP
Metheringham Heath
BLANKNEY CP
Blankney Heath
SCOPWICK CP
Scopwick Heath
Kirkby Green
ROWSTON CP
NORTH KESTEVEN DISTRICT
ASHBY DE LA LAUNDE AND BLOXHOLM CP
DIGBY CP
Digby
DORRINGTON CP
Dorrington
TEMPLE BRUER WITH TEMPLE HIGH GRANGE CP
CRANWELL, BRAUNCEWELL AND BYARD'S LEAP CP
RUSKINGTON CP
Navenby Heath
Wellingore Heath

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 34 35 36 37 39 40

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland
- Solar PV Modules may be visible

NOTES:
Layout file: D012-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-5m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 5m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The model does not take into account some localised features such as hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m² resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.5c: Solar PV Standard ZTV - Central Parcel

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:40,000 @ A3

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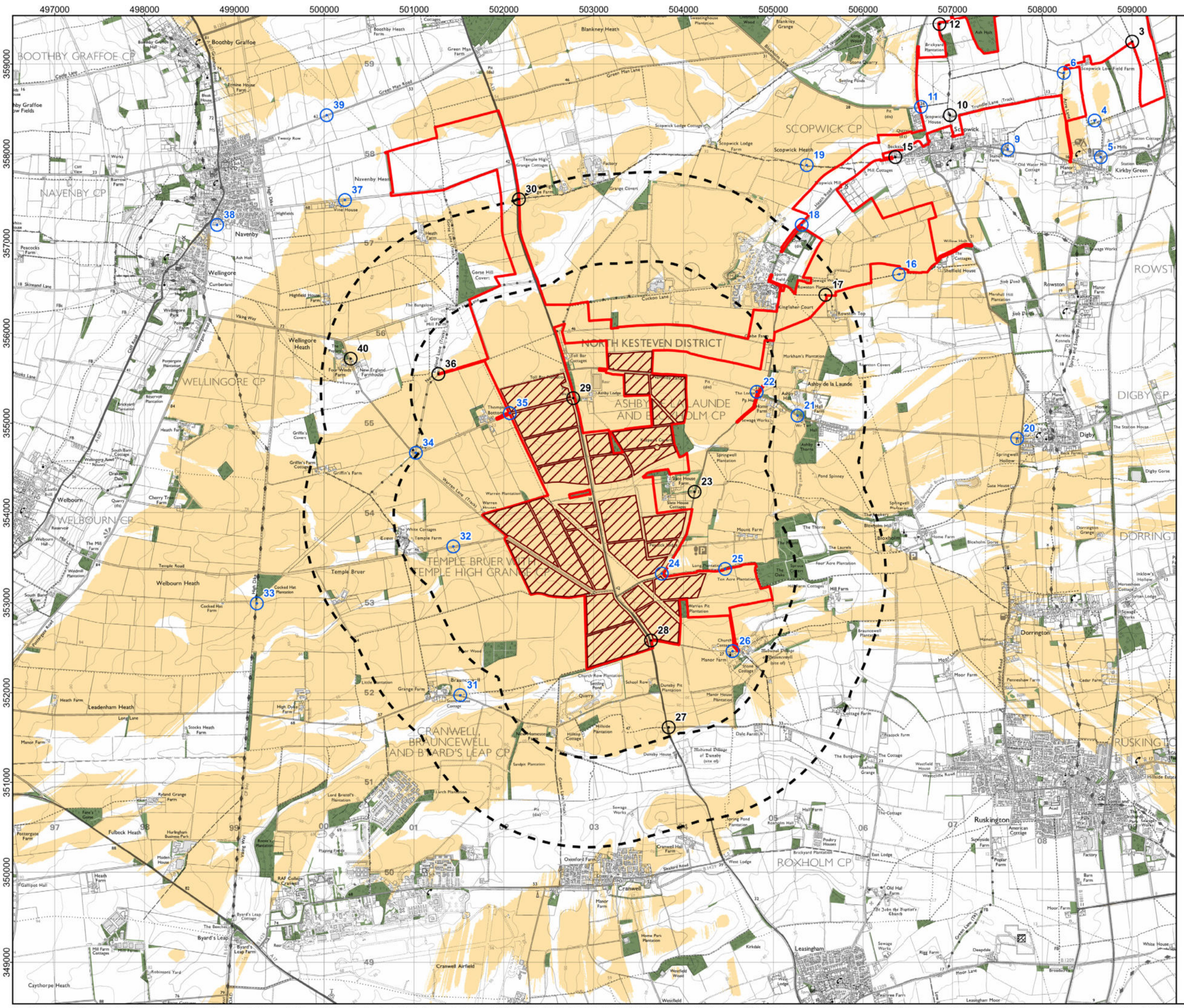

Legend:

- Proposed Site Boundary
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland
- Solar PV Modules may be visible

NOTES:
Layout file: D012-obvs-panels-LiDAR-5km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-5m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 5m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The model does not take into account some localised features such as hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m² resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.5d: Solar PV Standard ZTV - West Parcel

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:40,000 @ A3

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Extent of figure 10.6b

Extent of figure 10.6c

Extent of figure 10.6d

Legend:

- Order Limits
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland and Vegetation higher than 2.5m
- Solar PV Modules may be visible
- Extent of Detail Sheets

NOTES:
Layout file: D012-obvs-panels-LiDAR5m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. The locations of buildings have been taken from the OS Open Map Local dataset and vegetation/woodland from the Environment Agency's Vegetation Object Model (2021) dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m² resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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TITLE:
Figure 10.6a: Solar PV Detailed Screening ZTV

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 1 2
Kilometers
Scale: 1:65,000 @ A3

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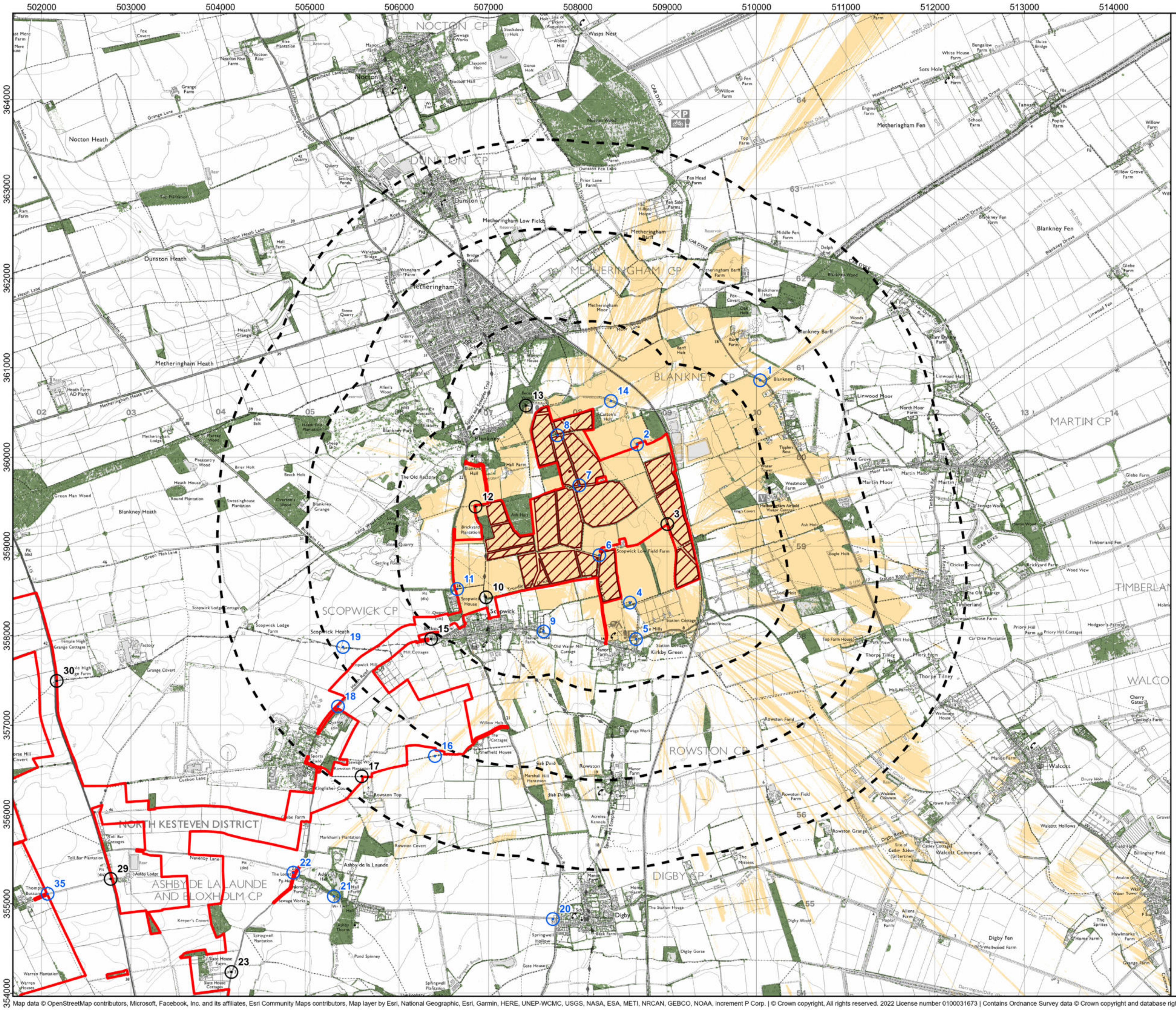

Legend:

- 🟥 Order Limits
- ▨ Proposed Solar PV Modules
- ⊙ Assessment Viewpoints
- ⊙ Photomontage Locations
- 🟩 Existing Woodland and Vegetation higher than 2.5m
- 🟨 Solar PV Modules may be visible

NOTES:
Layout file: D012-obvs-panels-LiDAR5m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m^2 resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

01	Nov 2024	DCO Submission	RSK	RSK	EDF
Rev	**Date**	**Description**	**Drn**	**Chk**	**App**

Springwell Solar Farm

Springwell
Solar Farm

DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 2: FIGURES
REGULATION 5(2)(a)

TITLE:
Figure 10.6b: Solar PV Detailed Screening ZTV - East Parcel

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Kilometers
Scale: 1:40,000 @ A3

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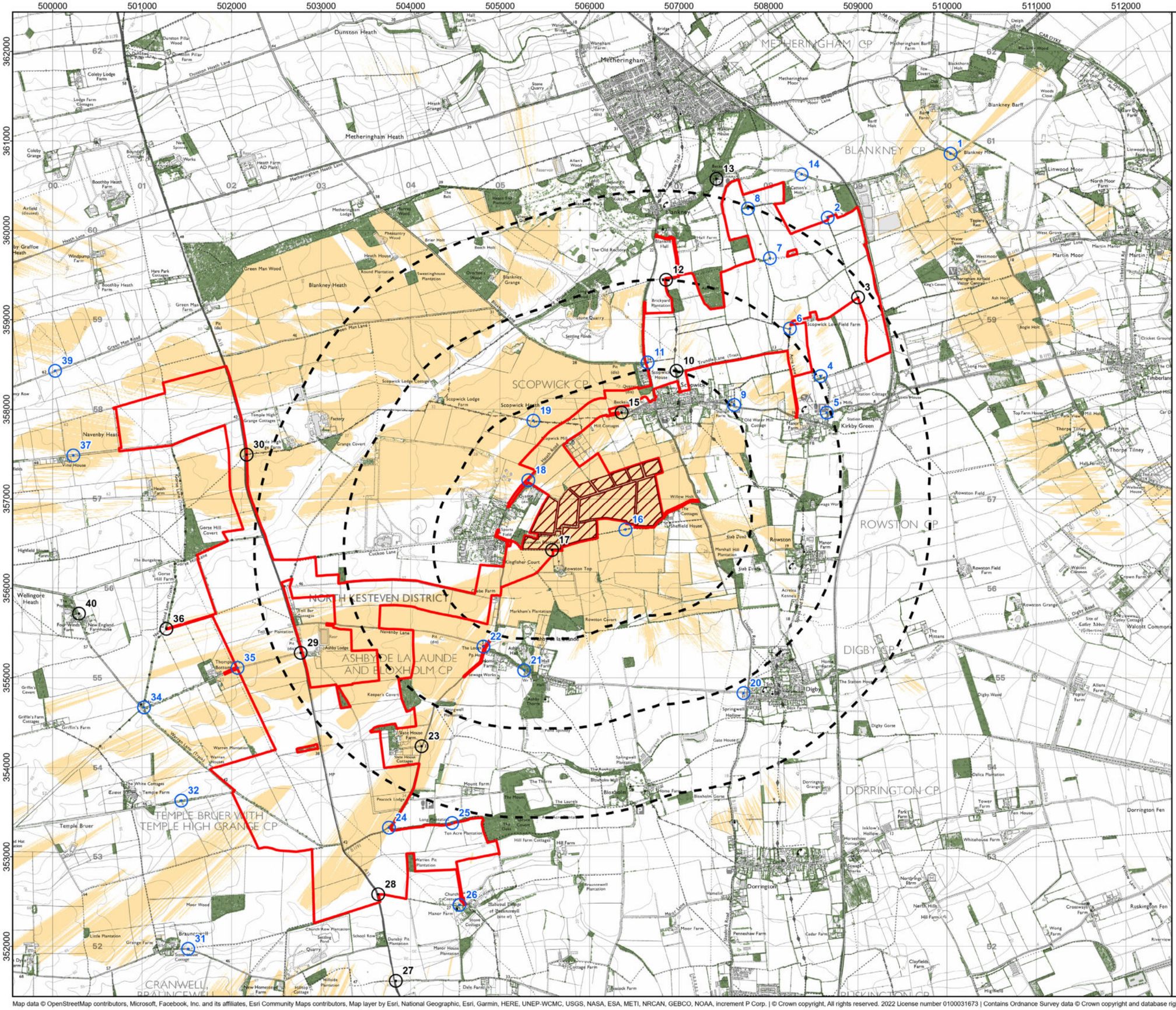

Legend:

- Order Limits
- Proposed Solar PV Modules
- Distance Radii from Proposed Solar PV Modules (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland and Vegetation higher than 2.5m
- Solar PV Modules may be visible

NOTES:
Layout file: D012-obvs-panels-LiDAR5m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m² resolution.
The ZTV does not include inverters, transformers or switchgear compounds and shows the visibility of the solar PV panels only.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

Rev	Date	Description	Drn	Chk	App
01	Nov 2024	DCO Submission	RSK	RSK	EDF

Springwell Solar Farm

DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 2: FIGURES
REGULATION 5(2)(a)

TITLE:
Figure 10.6c: Solar PV Detailed Screening ZTV - Central Parcel

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Kilometers
Scale: 1:40,000 @ A3

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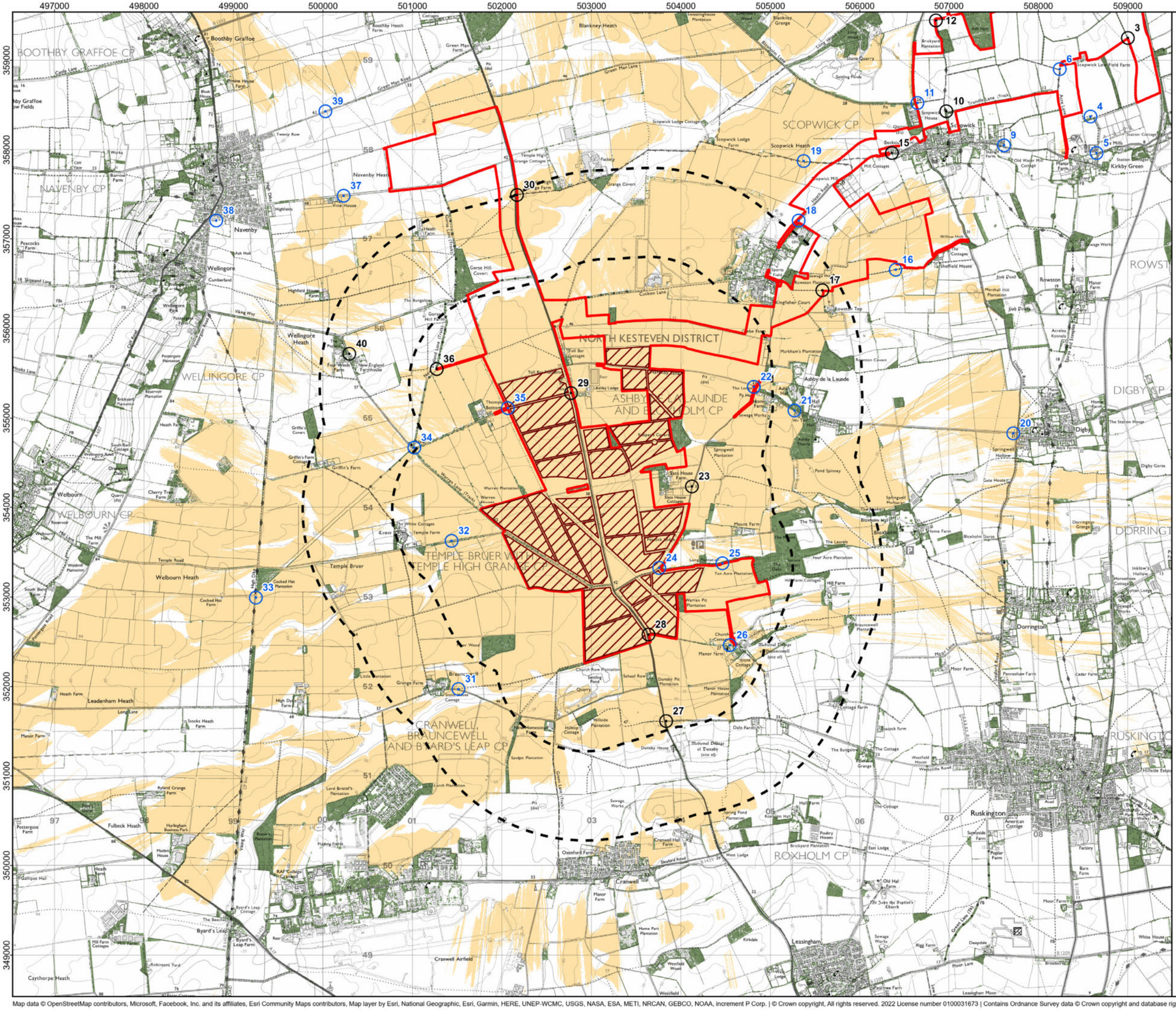
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WELLINGORE CP
WELBOURN CP
SCOPWICK CP
NORTH KESTEVEN DISTRICT
ASHBY DE LA LAUNDE AND BLANKNEY CP
TEMPLE BRUER WITH TEMPLE HIGH GRANGE CP
CRANWELL, BRAUNCEWELL AND BYARD'S LEAP CP
ROXHOLM CP
DIGBY CP
DORRINGTON CP
RUSKINGTON CP
Boothby Graffoe
Navenby
Wellingore
Welbourn
Scopwick
Kirkby Green
Ashby de la Launde
Digby
Dorrington
Ruskington
Cranwell
Leasingham
Sleaford
Temple Bruer
Welbourn Heath
Leadenham Heath
Cranwell Airfield
Byard's Leap
Caythorpe Heath
Fulbeck Heath
Wellingore Heath
Navenby Heath
Blankney Heath
Scopwick Heath
Rowston
Kirkby Green
Ashby Thorns
Springwell Hollow
Digby Gorse
Bloxholm
Leasingham Moor
Ruskington Common
Temple Bruer
Temple High Grange Cottages
Braunceford
Dunsby House
Dunsby Pit Plantation
Roxholm Hall
Roxholm Covert
Rowston Top
Rowston Covers
Scopwick Lodge Farm
Scopwick Lodge Cottages
Scopwick Heath
Scopwick Moor
Scopwick House
Scopwick Low Field Farm
Ashby Lodge
Ashby Hall
Ashby Thorns
Ashby Covert
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Springwell Hollow
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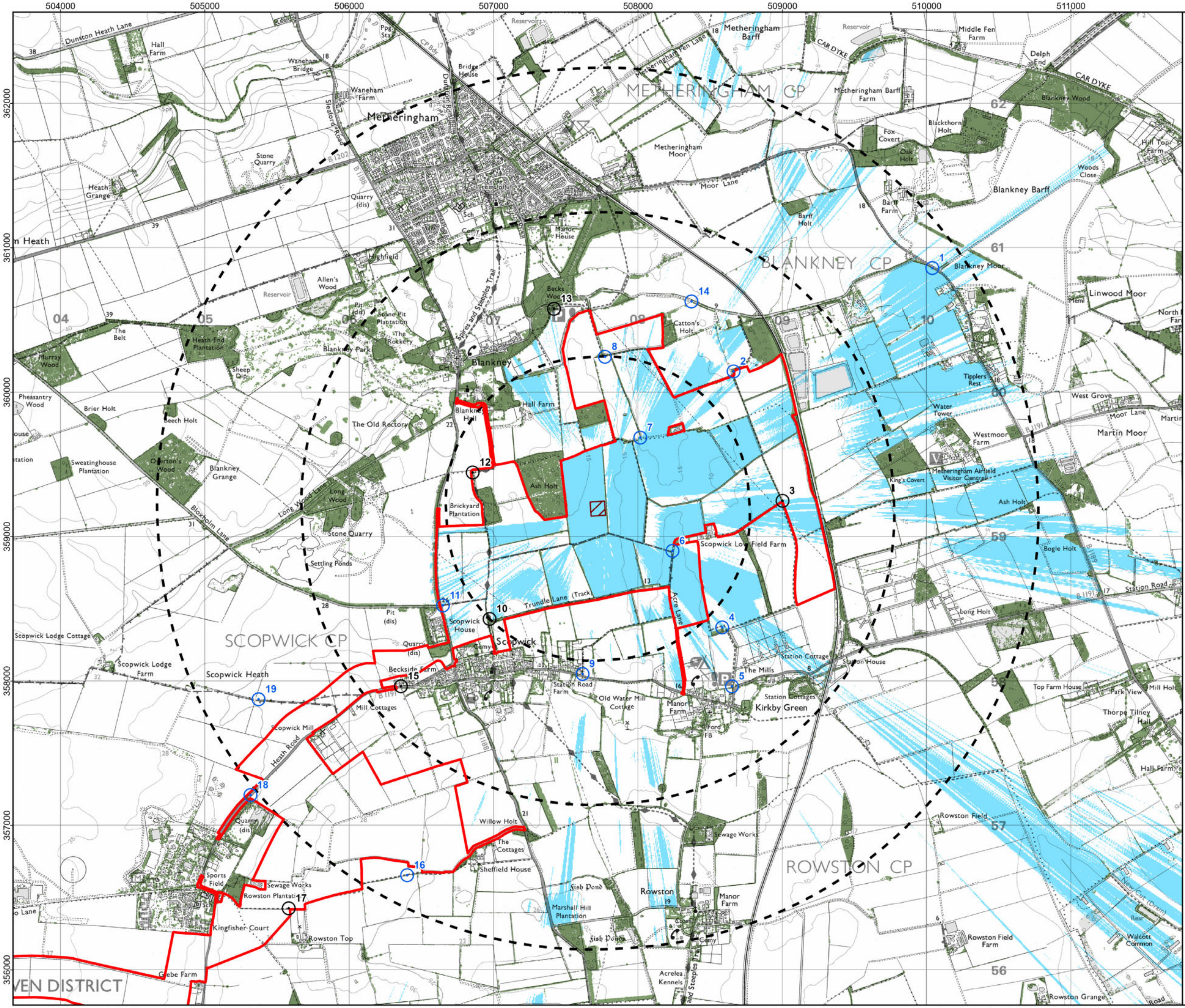

Legend:

- 🟥 Order Limits
- ▨ Siting Area
- - - Distance Radii from Siting Area (1, 2, 3km)
- ⊙ Assessment Viewpoints
- ⊙ Photomontage Locations
- 🟩 Existing Woodland and Vegetation higher than 2.5m
- 🟦 Siting zone for structures up to 6m high may be visible

NOTES:
Layout file: D012-obvs-satellite-collectors-LiDAR2m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a $2m^2$ resolution.
The ZTV does not show cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, National Grid Sealing End Compound and additional 400kV towers.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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Springwell Solar Farm

Springwell
Solar Farm

DOCUMENT:
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TITLE:
Figure 10.7a: Siting Zone for Satellite Collector ZTV - East

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:25,000 @ A3

REV 01

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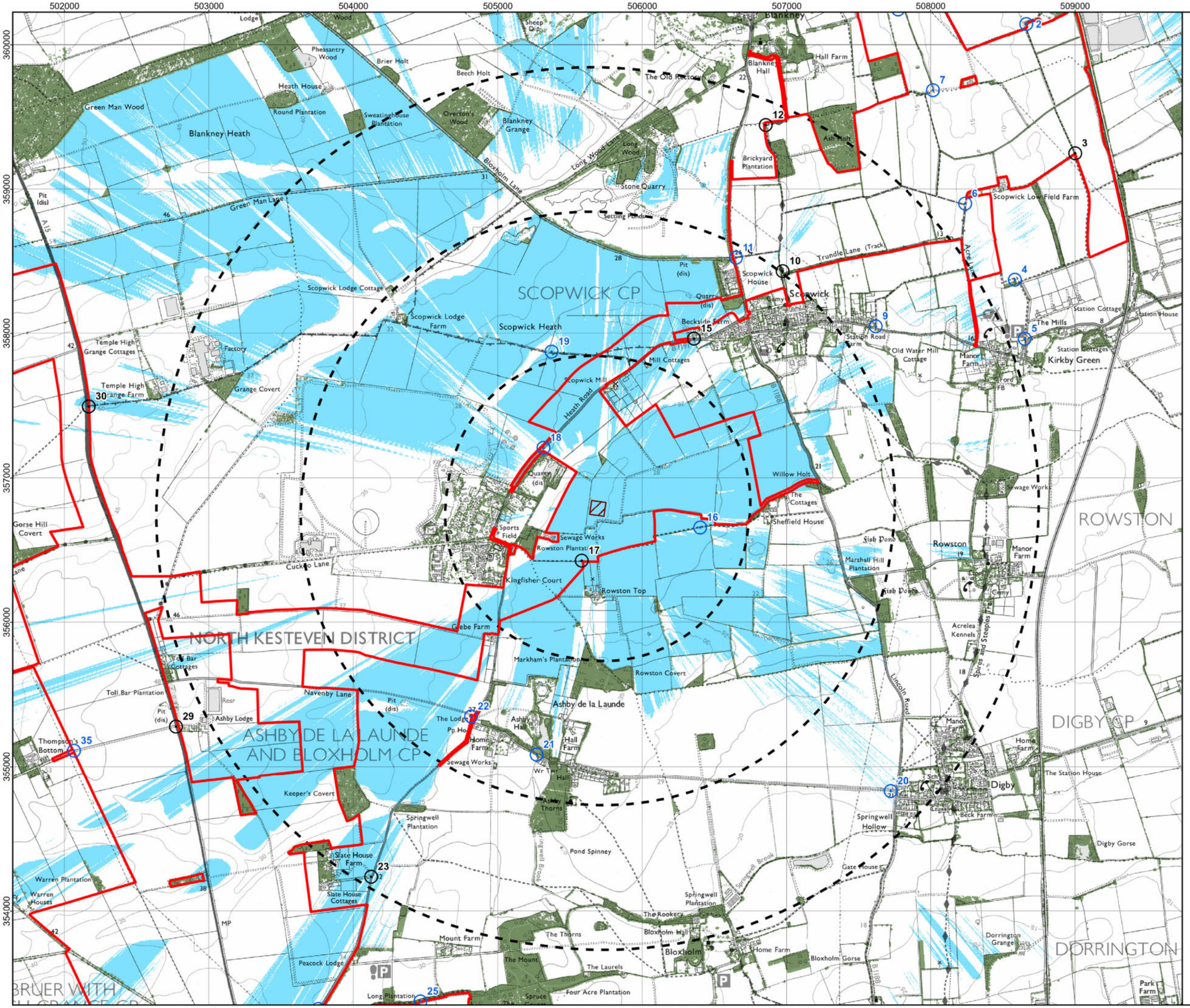

Legend:

- Order Limits
- Siting Area
- Distance Radii from Siting Area (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland and Vegetation higher than 2.5m
- Siting zone for structures up to 6m high may be visible

NOTES:
Layout file: D012-obvs-satellite-collectors-LiDAR2m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a $2m^2$ resolution.
The ZTV does not show cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, National Grid Sealing End Compound and additional 400kV towers.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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ENVIRONMENTAL STATEMENT
VOLUME 2: FIGURES
REGULATION 5(2)(a)

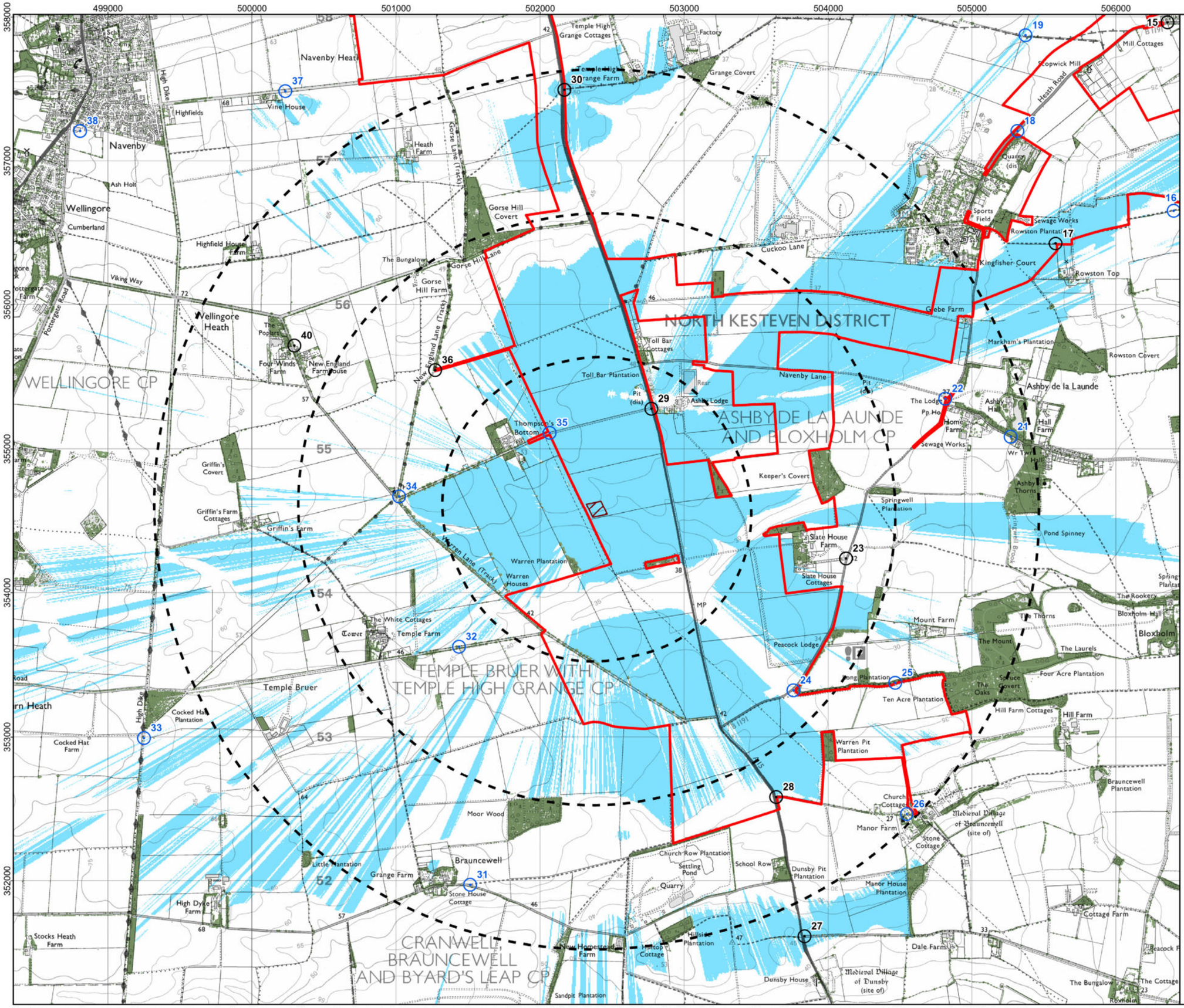
TITLE:
Figure 10.7b: Siting Zone for Satellite Collector ZTV - Central

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:25,000 @ A3

REV 01

Path: C:\Users\mo.pamplin.RSK\HELSBY\RSK Group\SH Projects 200s - 0297 - Acre Lane Solar Farm\05 Working Files\02 GIS\P663620-ES.aprx\ES 10-7a-c Satellite Collector ZTVs



Legend:

- Order Limits
- Siting Area
- Distance Radii from Siting Area (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland and Vegetation higher than 2.5m
- Siting zone for structures up to 6m high may be visible

NOTES:
Layout file: D012-obvs-satellite-collectors-LiDAR2m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 2m² resolution.
The ZTV does not show cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, National Grid Sealing End Compound and additional 400kV towers.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.7c: Siting Zone for Satellite Collector ZTV - West

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:25,000 @ A3

REV 01

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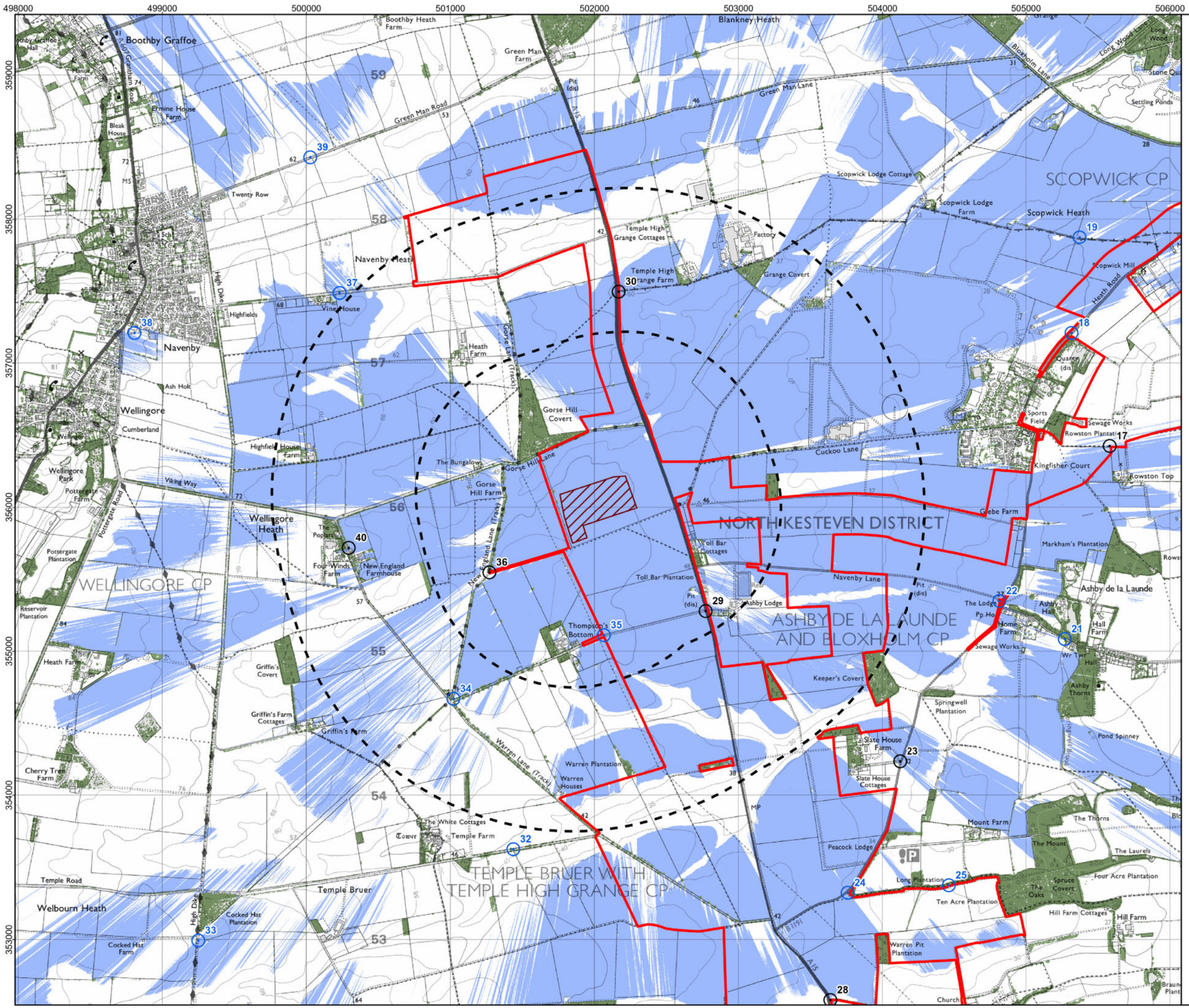

Legend:

- Order Limits
- Siting Area
- Distance Radii from Siting Area (1, 2, 3km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland and Vegetation higher than 2.5m
- Siting zone for structures up to 6m high may be visible

NOTES:
Layout file: D012-obvs-BESS-LiDAR2m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a $2m^2$ resolution.
The ZTV does not show cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, National Grid Sealing End Compound and additional 400kV towers.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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REGULATION 5(2)(a)

TITLE:
Figure 10.8: Siting Zone for BESS ZTV

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 0.5 1
Kilometers
Scale: 1:25,000 @ A3

REV 01

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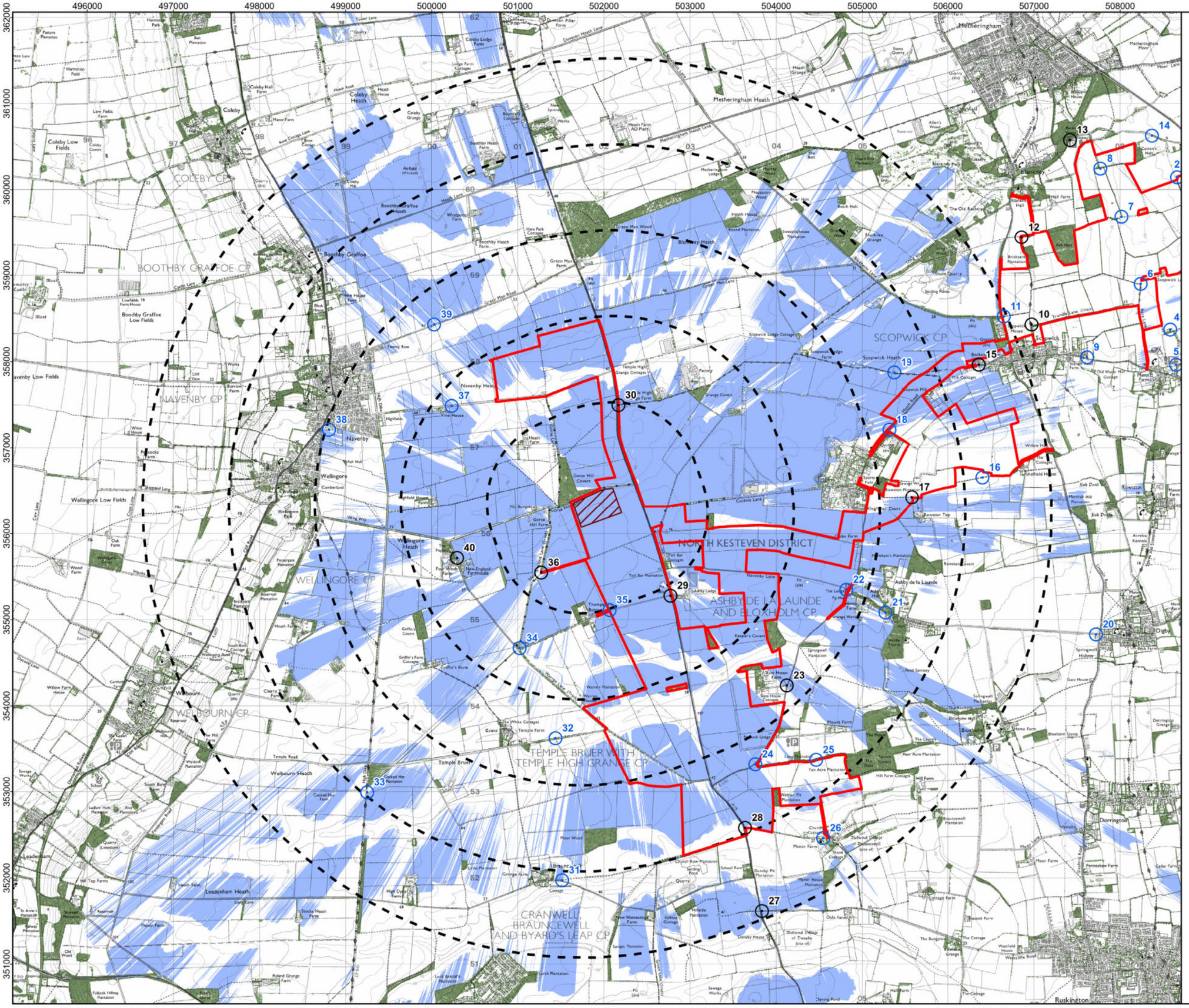

Legend:

- Order Limits
- Siting Area
- Distance Radii from Siting Area (1, 2, 3, 4, 5km)
- Assessment Viewpoints
- Photomontage Locations
- Existing Woodland and Vegetation higher than 2.5m
- Siting zone for structures up to 12m high may be visible

NOTES:
Layout file: D012-obvs-substation-LiDAR5m-3km.shp
Terrain data: DEFRA-LiDAR-2022-derivedDSM-VOM-2m.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 2m
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.
The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.
A digital surface model (DSM) has been derived from DEFRA 2022 2m DTM height data. Locations of buildings are taken from the OS Open Map Local dataset and woodland from the EA's Vegetation Object Model dataset. Heights of buildings and woodland are taken from DEFRA 2022 2m DSM height data.
The actual extent of visibility on the ground will be less than that suggested by this plan.
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a $2m^2$ resolution.
The ZTV does not show cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, National Grid Sealing End Compound and additional 400kV towers.

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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TITLE:
Figure 10.9: Siting Zone for Springwell Substation and Main Collector Compound ZTV

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Kilometers
Scale: 1:41,902 @ A3

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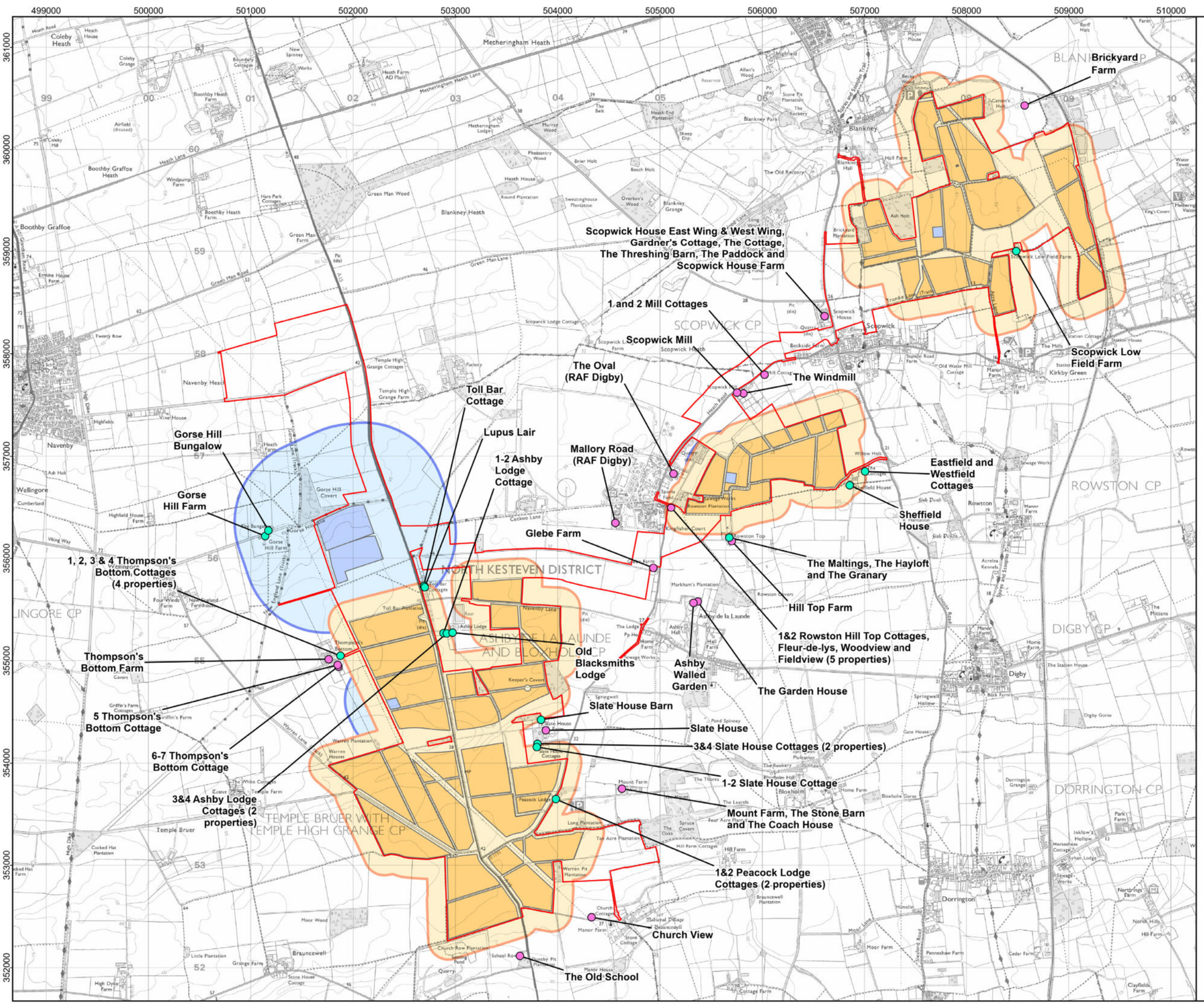

Legend:

- Order Limits
- Residential Properties subject to Detailed Residential Visual Amenity Assessment (RVAA)
- Residential Properties referred to in the PEIR but not subject to Detailed RVAA
- Areas for Solar PV Development
- Siting Zones for 6/12m Structures
- 200m Buffer from Areas for Solar PV Development
- Buffers from Siting Zones (400m from 6m structures/ 800m from 12m structures)

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Meter

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TITLE:
Figure 10.10: RVAA Residential Property Location Plan

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Kilometers
Scale: 1:35,000 @ A3

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508000 508100 508200 508300 508400 508500 508600 508700 508800 508900

359400 359300 359200 359100 359000 358900 358800 358700

260m

80m

Acre Lane

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Legend:

- Order Limits
- Sitting zone for PV development
- Scopwick Lowfield Farm
- Scopwick Lowfield Farm Garden
- Agricultural Outbuildings
- RVAA Viewpoint Location
- New hedgerow planting or enhanced management of existing hedgerow
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.11: RVAA Property Plan - Scopwick Low Field Farm

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Scale: 1:3,000 @ A3

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357200 357100 357000 356900 356800 356700 356600 356500

Legend:

- Order Limits
- Sitting zone for PV development
- Eastfield and Westfield Cottages
- Eastfield and Westfield Cottages Garden
- Agricultural Outbuildings
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.12: RVAA Property Plan - Eastfield and Westfield Cottages

PINS REFERENCE NUMBER:
EN010149/APP/6.2

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Scale: 1:3,000 @ A3

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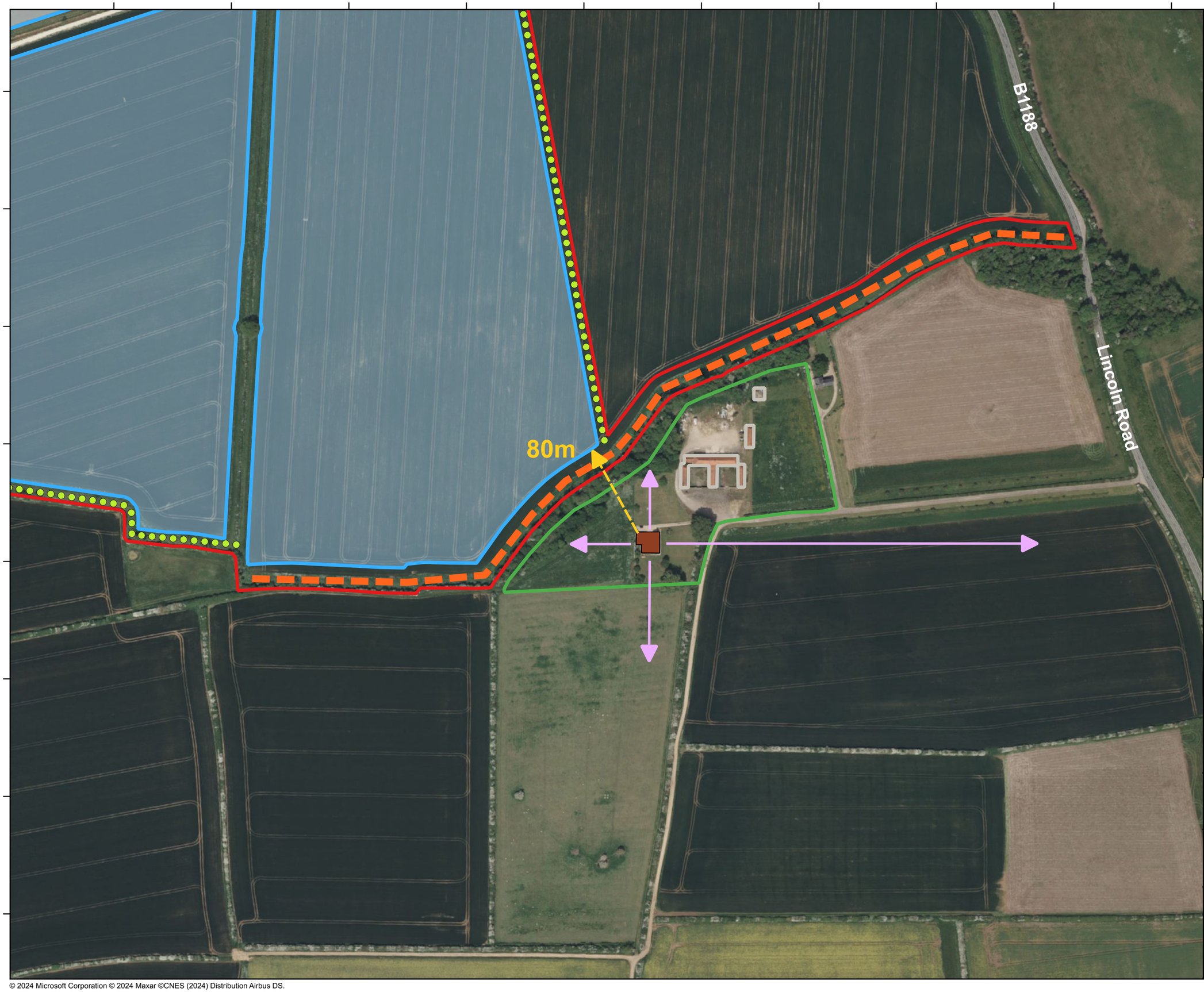
357100 357000 356900 356800 356700 356600 356500 356400



Legend:

- Order Limits
- Sitting zone for PV development
- Sheffield House
- Sheffield House Garden
- Agricultural Outbuildings
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.13: RVAA Property Plan - Sheffield House

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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505200 505300 505400 505500 505600 505700 505800 505900 506000 506100

356600 356500 356400 356300 356200 356100 356000 355900

280m

230m

Legend:

- Order Limits
- Sitting zone for PV development
- The Maltings
- The Maltings Garden
- New hedgerow planting or enhanced management of existing hedgerow
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.14: RVAA Property Plan - The Maltings

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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505200 505300 505400 505500 505600 505700 505800 505900 506000 506100

356600 356500 356400 356300 356200 356100 356000 355900

230m

Legend:

- Order Limits
- Sitting zone for PV development
- The Hayloft
- The Hayloft Garden
- New hedgerow planting or enhanced management of existing hedgerow
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.15: RVAA Property Plan - The Hayloft

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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505200 505300 505400 505500 505600 505700 505800 505900 506000 506100

356600 356500 356400 356300 356200 356100 356000 355900

230m

Legend:

- Order Limits
- Sitting zone for PV development
- The Granary at Rowston Top
- The Granary at Rowston Top Garden
- New hedgerow planting or enhanced management of existing hedgerow
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.16: RVAA Property Plan - The Granary

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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503400 503500 503600 503700 503800 503900 504000 504100 504200 504300

354700 354600 354500 354400 354300 354200 354100 354000

Legend:

- Order Limits
- Sitting zone for PV development
- Slate House Barn
- Slate House Barn Garden
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.17:
RVAA Property Plan - Slate House Barn

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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503300 503400 503500 503600 503700 503800 503900 504000 504100 504200 504300

354500 354400 354300 354200 354100 354000 353900 353800

Legend:

- Order Limits
- Sitting zone for PV development
- 1-2 Slate House Cottages
- 1-2 Slate House Cottages Garden
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

Rev	Date	Description	Drn	Chk	App
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TITLE:

Figure 10.18 RVAA Property Plan - 1-2 Slate House Cottages

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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503300 503400 503500 503600 503700 503800 503900 504000 504100 504200 504300

354600 354500 354400 354300 354200 354100 354000 353900 353800

B1191

320m

200m

Legend:

- Order Limits
- Sitting zone for PV development
- 3 and 4 Slate House Cottages
- 3 and 4 Slate House Cottages Garden
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.19: RVAA Property Plan - 3 and 4 Slate House Cottages

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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503500 503600 503700 503800 503900 504000 504100 504200 504300 504400

354000 353900 353800 353700 353600 353500 353400 353300

B1191

70m

360m

Legend:

- Order Limits
- Sitting zone for PV development
- 1 and 2 Peacock Lodge Cottage
- 1-2 Peacock Lodge Cottage Garden
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.20: RVAA Property Plan - 1 and 2 Peacock Lodge Cottages

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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502500 502600 502700 502800 502900 503000 503100 503200 503300 503400

355600 355500 355400 355300 355200 355100 355000 354900

Navenby Lane

A15

380m

200m

380m

Legend:

- Order Limits
- Sitting zone for PV development
- Old Blacksmiths Cottages
- Old Blacksmiths Cottages Garden
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.21: RVAA Property Plan - Old Blacksmiths Cottage at Ashby Lodge

PINS REFERENCE NUMBER:
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0 50 100 m

Scale: 1:3,000 @ A3

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Legend:

- Order Limits
- Sitting zone for PV development
- 3-4 Ashby Lodge Cottages
- 3-4 Ashby Lodge Cottages Garden
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.22: RVAA Property Plan - 3 and 4 Ashby Lodge Cottages

PINS REFERENCE NUMBER:
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0 50 100 m

Scale: 1:3,000 @ A3

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502400 502500 502600 502700 502800 502900 503000 503100 503200 503300 503400

355600 355500 355400 355300 355200 355100 355000 354900

Navenby Lane

A15

130m

400m

Legend:

- Order Limits
- Sitting zone for PV development
- 1-2 Ashby Lodge Cottages
- 1-2 Ashby Lodge Cottages Garden
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.23: RVAA Property Plan - 1-2 Ashby Lodge Cottage

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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502200 502300 502400 502500 502600 502700 502800 502900 503000 503100 503200

356100 356000 355900 355800 355700 355600 355500 355400

470m

A15

170m

Navenby Lane

Legend:

- Order Limits
- Sitting zone for PV development
- Sitting Zone for BESS and Springwell Substation
- Toll Bar Cottage
- Toll Bar Cottage Garden
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.24: RVAA Property Plan - Toll Bar Cottage

PINS REFERENCE NUMBER:
EN010149/APP/6.2

0 50 100 m

Scale: 1:3,000 @ A3

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502200 502300 502400 502500 502600 502700 502800 502900 503000 503100 503200

356100 356000 355900 355800 355700 355600 355500 355400

480m

160m

A15

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Legend:

- Order Limits
- Sitting zone for PV development
- Sitting Zone for BESS and Springwell Substation
- Lupus Lair Cottage
- Lupus Lair Cottage Garden
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:

Figure 10.25 RVAA Property Plan - Lupus Lair

PINS REFERENCE NUMBER:
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0 50 100 m

Scale: 1:3,000 @ A3

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501400 501500 501600 501700 501800 501900 502000 502100 502200 502300

355400 355300 355200 355100 355000 354900 354800 354700

Legend:

- Site Boundary
- Solar Fields Boundary
- 1-4 Thompson Bottom Cottages
- 1-4 Thompson Bottom Cottages Garden
- Thompson Bottom Farm
- New hedgerow planting or enhanced management of existing hedgerow
- New structure planting: native trees and shrub planting
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

Rev	Date	Description	Drn	Chk	App
00	22/07/2024	First draft	SL	JI	JI

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TITLE:
Figure 10.26: RVAA Property Plan - 1-4 Thompson's Bottom Farm

PINS REFERENCE NUMBER:
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0 50 100 m

Scale: 1:3,000 @ A3

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500900 501000 501100 501200 501300 501400 501500 501600 501700 501800 501900

356600 356500 356400 356300 356200 356100 356000 355900 355800

Legend:

- Site Boundary
- Solar Fields Boundary
- Sitting Zone for BESS and Springwell Substation
- Gorse Hill Bungalow
- Gorse Hill Bungalow Garden
- New structure planting: native trees and shrub planting
- RVAA Viewpoint Location
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.27: RVAA Property Plan - Gorse Hill Farm

PINS REFERENCE NUMBER:
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0 50 100 m

Scale: 1:3,000 @ A3

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Legend:

- Site Boundary
- Solar Fields Boundary
- Sitting Zone for BESS and Springwell Substation
- Gorse Hill Bungalow
- Gorse Hill Bungalow Garden
- New structure planting: native trees and shrub planting
- Distance between residential property and sitting zone for above ground infrastructure
- Primary Orientation of views

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TITLE:
Figure 10.28: RVAA Property Plan - Gorse Hill Bungalow

PINS REFERENCE NUMBER:
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0 50 100 m

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Planning Inspectorate Scheme Ref: EN010149